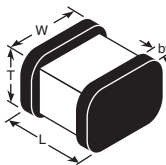


AVX Microwave MLCs

RoHS Compliant This product is RoHS compliant.

These porcelain and ceramic dielectric multilayer capacitor (MLC) chips are best suited for RF/Microwave applications typically ranging from 10MHz to 4.2GHz. Characteristic is a fine grained, high density, high purity dielectric material impervious to moisture with heavy internal palladium electrodes.

UQ SERIES



- Features:**
- Ultra Low ESR
 - High Q
 - High Self Resonance

- Applications:**
- RF Power Amplifiers
 - Low Noise Amplifiers
 - Filter Networks
 - MRI Systems

DIMENSIONS: in. (mm)				
Case	Length (L)	Width (W)	Thickness (T)	Band Width (bw)
UQCL	.040 ± .004 (1.02 ± .100)	.020 ± .004 (0.51 ± .100)	.024 (.600) max.	.010 ± .006 (0.25 ± 0.15)
UQCS	.063 ± .006 (1.60 ± 0.15)	.032 ± .006 (0.81 ± 0.15)	.035 (.890) max.	.014 ± .006 (0.36 ± 0.15)
UQCF	.079 ± .008 (2.01 ± 0.20)	.049 ± .008 (1.24 ± 0.20)	.051 (1.30) max.	.020 ± 0.01 (0.51 ± 0.25)

For quantities greater than listed, call for quote.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Value (µF)	Tol. ±	Price Each				
				1	50	100	500	1000
Style UQCL '0402 200 Volt								
581-UQCL2A0R1BAT2A	UQCL2A0R1BAT2A/500	0.1	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R2BAT2A	UQCL2A0R2BAT2A/500	0.2	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R3BAT2A	UQCL2A0R3BAT2A/500	0.3	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R4BAT2A	UQCL2A0R4BAT2A/500	0.4	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R5BAT2A	UQCL2A0R5BAT2A/500	0.5	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R6BAT2A	UQCL2A0R6BAT2A/500	0.6	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R7BAT2A	UQCL2A0R7BAT2A/500	0.7	.1 pF	.63	.56	.43	.37	.26
581-UQCL2A0R8BAT2A	UQCL2A0R8BAT2A/500	0.8	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A0R9BAT2A	UQCL2A0R9BAT2A/500	0.9	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A1R0BAT2A	UQCL2A1R0BAT2A/500	1	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A1R1BAT2A	UQCL2A1R1BAT2A/500	1.1	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A1R2BAT2A	UQCL2A1R2BAT2A/500	1.2	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A1R5BAT2A	UQCL2A1R5BAT2A/500	1.5	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCL2A1R6CAT2A	UQCL2A1R6CAT2A/500	1.6	25 pF	.64	.57	.48	.32	.28
581-UQCL2A1R8BAT2A	UQCL2A1R8BAT2A/500	1.8	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A2R0BAT2A	UQCL2A2R0BAT2A/500	2	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A2R2BAT2A	UQCL2A2R2BAT2A/500	2.2	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A2R4BAT2A	UQCL2A2R4BAT2A/500	2.4	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A2R7BAT2A	UQCL2A2R7BAT2A/500	2.7	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A3R0BAT2A	UQCL2A3R0BAT2A/500	3	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCL2A3R3BAT2A	UQCL2A3R3BAT2A/500	3.3	.1 pF	1.76	1.67	.78	.73	.39
581-UQCL2A3R9CAT2A	UQCL2A3R9CAT2A/500	3.9	25 pF	1.40	1.16	.94	.54	.26
581-UQCL2A4R7CAT2A	UQCL2A4R7CAT2A/500	4.7	25 pF	1.40	1.16	.94	.54	.26
581-UQCL2A5R6CAT2A	UQCL2A5R6CAT2A/500	5.6	25 pF	.88	.77	.66	.44	.31
581-UQCL2A6R8CAT2A	UQCL2A6R8CAT2A/500	6.8	25 pF	1.36	1.18	1.02	.68	.49
581-UQCL2A8R2CAT2A	UQCL2A8R2CAT2A/500	8.2	25 pF	1.36	1.18	1.02	.68	.49
581-UQCL2A100JAT2A	UQCL2A100JAT2A/500	10	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A120JAT2A	UQCL2A120JAT2A/500	12	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A150JAT2A	UQCL2A150JAT2A/500	15	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A180JAT2A	UQCL2A180JAT2A/500	18	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A200JAT2A	UQCL2A200JAT2A/500	20	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A220JAT2A	UQCL2A220JAT2A/500	22	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A240JAT2A	UQCL2A240JAT2A/500	24	5%	1.79	1.30	1.06	.61	.29
581-UQCL2A270JAT2A	UQCL2A270JAT2A/500	27	5%	1.79	1.30	1.06	.61	.29
Style UQCS '0603 250 Volt								
581-UQCSVA0R1BAT/500	UQCSVA0R1BAT2A/500	0.1	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R2BAT/500	UQCSVA0R2BAT2A/500	0.2	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R3BAT/500	UQCSVA0R3BAT2A/500	0.3	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R4BAT/500	UQCSVA0R4BAT2A/500	0.4	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R5BAT/500	UQCSVA0R5BAT2A/500	0.5	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R6BAT/500	UQCSVA0R6BAT2A/500	0.6	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R7BAT/500	UQCSVA0R7BAT2A/500	0.7	.1 pF	.63	.56	.43	.37	.26
581-UQCSVA0R8BAT/500	UQCSVA0R8BAT2A/500	0.8	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA0R9BAT/500	UQCSVA0R9BAT2A/500	0.9	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA1R0BAT/500	UQCSVA1R0BAT2A/500	1	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA1R1BAT/500	UQCSVA1R1BAT2A/500	1.1	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA1R2BAT/500	UQCSVA1R2BAT2A/500	1.2	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA1R5BAT/500	UQCSVA1R5BAT2A/500	1.5	.1 pF	1.78	1.29	1.05	.87	.71
581-UQCSVA1R8BAT/500	UQCSVA1R8BAT2A/500	1.8	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA2R0BAT/500	UQCSVA2R0BAT2A/500	2	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA2R2BAT/500	UQCSVA2R2BAT2A/500	2.2	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA2R4BAT/500	UQCSVA2R4BAT2A/500	2.4	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA2R7BAT/500	UQCSVA2R7BAT2A/500	2.7	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA3R0BAT/500	UQCSVA3R0BAT2A/500	3	.1 pF	2.06	1.50	1.22	.71	.55
581-UQCSVA3R3BAT/500	UQCSVA3R3BAT2A/500	3.3	.1 pF	1.76	1.67	.78	.73	.39
581-UQCSVA3R9CAT/500	UQCSVA3R9CAT2A/500	3.9	25 pF	.71	.62	.53	.44	.35
581-UQCSVA4R7CAT/500	UQCSVA4R7CAT2A/500	4.7	25 pF	.71	.62	.53	.44	.35
581-UQCSVA5R6CAT/500	UQCSVA5R6CAT2A/500	5.6	25 pF	1.28	1.12	.96	.64	.46
581-UQCSVA6R8CAT/500	UQCSVA6R8CAT2A/500	6.8	25 pF	1.36	1.18	1.02	.68	.49
581-UQCSVA8R2CAT/500	UQCSVA8R2CAT2A/500	8.2	25 pF	1.36	1.18	1.02	.68	.49
581-UQCSVA100JAT/500	UQCSVA100JAT2A/500	10	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA120JAT/500	UQCSVA120JAT2A/500	12	5%	1.79	1.30	1.06	.61	.29

MOUSER STOCK NO.	AVX Part No.	Value (µF)	Tol. ±	Price Each				
				1	50	100	500	1000
Style UQCS '0603 250 Volt (Cont)								
581-UQCSVA150JAT/500	UQCSVA150JAT2A/500	15	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA180JAT/500	UQCSVA180JAT2A/500	18	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA200JAT/500	UQCSVA200JAT2A/500	20	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA220JAT/500	UQCSVA220JAT2A/500	22	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA240JAT/500	UQCSVA240JAT2A/500	24	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA270JAT/500	UQCSVA270JAT2A/500	27	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA300JAT/500	UQCSVA300JAT2A/500	30	5%	1.79	1.30	1.06	.61	.29
581-UQCSVA330JAT/500	UQCSVA330JAT2A/500	33	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA390JAT/500	UQCSVA390JAT2A/500	39	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA470JAT/500	UQCSVA470JAT2A/500	47	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA560JAT/500	UQCSVA560JAT2A/500	56	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA680JAT/500	UQCSVA680JAT2A/500	68	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA820JAT/500	UQCSVA820JAT2A/500	82	5%	1.87	1.50	1.21	.70	.55
581-UQCSVA101JAT/500	UQCSVA101JAT2A/500	100	5%	2.30	1.90	1.35	.94	.62
Style UQCF '0805 250 Volt								
581-UQCFVA0R1BAT/500	UQCFVA0R1BAT2A/500	0.1	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R2BAT/500	UQCFVA0R2BAT2A/500	0.2	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R3BAT/500	UQCFVA0R3BAT2A/500	0.3	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R4BAT/500	UQCFVA0R4BAT2A/500	0.4	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R5BAT/500	UQCFVA0R5BAT2A/500	0.5	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R6BAT/500	UQCFVA0R6BAT2A/500	0.6	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R7BAT/500	UQCFVA0R7BAT2A/500	0.7	.1 pF	1.85	1.46	1.20	.69	.55
581-UQCFVA0R8BAT/500	UQCFVA0R8BAT2A/500	0.8	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA0R9BAT/500	UQCFVA0R9BAT2A/500	0.9	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA1R0BAT/500	UQCFVA1R0BAT2A/500	1	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA1R1BAT/500	UQCFVA1R1BAT2A/500	1.1	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA1R2BAT/500	UQCFVA1R2BAT2A/500	1.2	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA1R5BAT/500	UQCFVA1R5BAT2A/500	1.5	.1 pF	.96	.84	.72	.48	.34
581-UQCFVA1R8BAT/500	UQCFVA1R8BAT2A/500	1.8	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA2R0BAT/500	UQCFVA2R0BAT2A/500	2	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA2R2BAT/500	UQCFVA2R2BAT2A/500	2.2	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA2R4BAT/500	UQCFVA2R4BAT2A/500	2.4	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA2R7BAT/500	UQCFVA2R7BAT2A/500	2.7	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA3R0BAT/500	UQCFVA3R0BAT2A/500	3	.1 pF	2.30	1.90	1.35	.94	.62
581-UQCFVA3R3BAT/500	UQCFVA3R3BAT2A/500	3.3	.1 pF	1.65	1.29	.97	.86	.73
581-UQCFVA3R9CAT/500	UQCFVA3R9CAT2A/500	3.9	25 pF	.88	.77	.66	.44	.31
581-UQCFVA4R7CAT/500	UQCFVA4R7CAT2A/500	4.7	25 pF	.88	.77	.66	.44	.31
581-UQCFVA5R6CAT/500	UQCFVA5R6CAT2A/500	5.6	25 pF	2.02	1.61	.61		